

## Proposed Project

Upper Little Patuxent

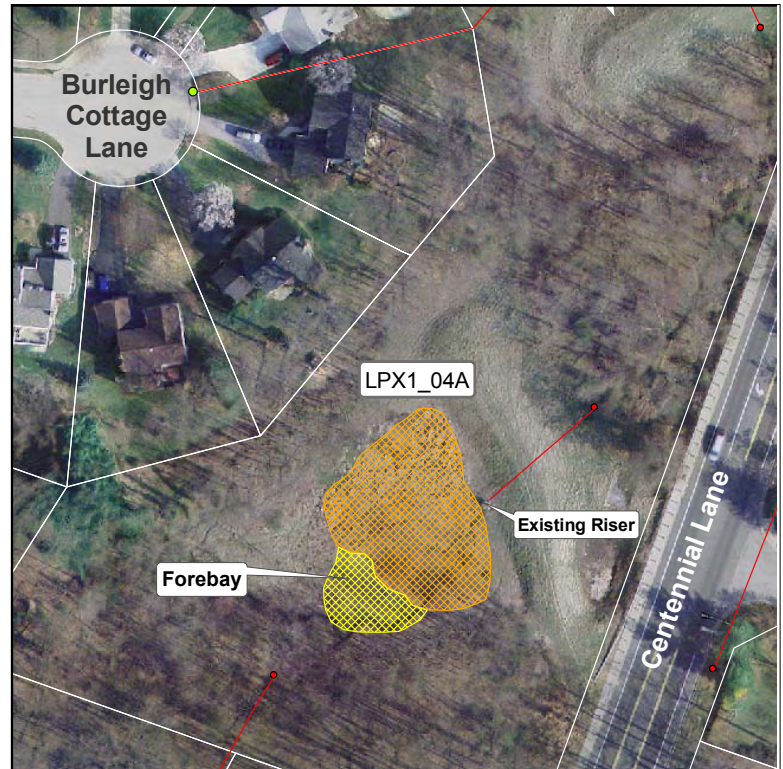
**Project Number:** LPX1\_04A

**Subwatershed:** Little Patuxent 1

**Project Type:** Pond Retrofit

**Project Size:** 21.6 acre drainage area/ 3.6 acres impervious

**Project Location:** In open space between Burleigh Cottage Lane and Centennial Lane.



**Project Description:** This project would entail retrofitting an existing pond situated between Burleigh Cottage Lane and Centennial Lane which captures runoff from neighborhoods along White Rose Way and Camelford Court. The pond would be excavated to increase detention volume to provide pollutant removal closer to current design standards. The design would incorporate water quality features such as a micropool, aquatic bench, forebay, and a meandering flow path. Because the project is a wet pond and is located near private residences, property owners would be kept informed and involved in the planning and design process.

### Project Benefits:

Water Quality	Conversion to a wet pond / wetland designed to current standards would provide water quality treatment and pollutant removal.
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### Project Constraints:

Environmental	No environmental constraints are anticipated with this project.
Property Ownership	This project lies within County owned property (Burleigh Manor open space).
Facility Access	Access to this site is obtained from Centennial Lane.
Design / Construction	Traffic maintenance will be required due to volume of traffic on Centennial Lane.

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### Cost Detail:

ITEM	QTY	UNITS	UNIT COST	TOTAL
<b>Site Work</b>				
Clear and Grub	0.3	AC	\$5,000.00	\$1,250
Pavement / Sidewalk Removal		SY	\$7.50	\$0
Curb-Gutter Removal		LF	\$10.00	\$0
Remove Pilot Channels		LF	\$6.00	\$0
Remove Barrel Pipe		LF	\$77.00	\$0
<b>Pond Construction</b>				
Grading and Excavation (Class I)	588	CY	\$30.00	\$17,640
Hauling and Disposal	588	CY	\$20.00	\$11,760
Embankment		CY	\$60.00	\$0
Forebay	79	CY	\$45.00	\$3,555
Safety bench	235	CY	\$30.00	\$7,050
Riser		LS	\$10,000.00	\$0
Outflow Pipe		LF	\$80.00	\$0
Outlet Protection	1	LS	\$8,000.00	\$8,000
Rip Rap Stabilization		LF	\$50.00	\$0
SWM Landscaping	1,254	SY	\$10.00	\$12,540
<b>Direct Construction Subtotal</b>				\$61,795
<b>Indirect Costs</b>				
E/SC, MOT, MOS (20% of Directs or \$10,000)	1	LS	\$12,359.00	\$12,359
Construction Stakeout (\$1,000/Day)	3	Day	\$3,000.00	\$3,000
Base Construction Cost				\$77,154
Mobilization (10% of Directs or \$1,000)				\$6,180
<b>Subtotal</b>				\$83,334
Contingency (30%)				\$25,000
<b>Construction Subtotal</b>				\$108,334
Env't'l Studies / Permitting (5% of Construction or \$5,000)				\$5,417
Engineering and Surveys (25% of Construction or \$40,000, maximum \$50,000)				\$40,000
<b>Total Capital Cost</b>				<b>\$153,750</b>
<b>Operations and Maintenance Costs</b>				
Annual Maintenance	6	Percent	\$3,708	
Discount Rate	5	Percent		
Expected Life	20	Years		
<b>Net Present Value of O&amp;M Costs</b>				\$46,206
<b>Life Cycle Cost</b>				<b>\$200,000</b>